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**CENTRAL INTELLIGENCE AGENCY**

## REPORT

CD NO.

50X1-HUM

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COUNTRY

## Hungary

DATE OF INFORMATION Not indicated

**SUBJECT**

Military; Economic - Aircraft industry

DATE DIST. 27 Jul 1951

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SUPPLEMENT TO  
REPORT NO.

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DATA ON UNDERGROUND RELOCATION OF  
AIRCRAFT-MANUFACTURING INSTALLATIONS IN HUNGARY

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- A. Location: Budapest East, land belonging to Dreher-Haggenschauer brewery
- B. Cover name: Polari brewery
- C. Type of industry relocated: Aircraft construction (fighter program);  
Donauflug Aircraft Construction Company, Manfred Weiss Aircraft Engines  
and Philipps Aviation Equipment, Tungsram, etc.
- D. Type of relocation (underline that which is applicable):
- a. In existing tunnels
  - b. In mining excavations (surface)
  - c. In mining excavations (shaft)
  - d. In caves
  - e. In new underground installations (open earth)
  - f. In above-ground bombproof installations
1. Explanation of D, a to d: Existing underground sand-like quarries,  
previously used as malt cellars, beer cellars, for mushroom cultivation,  
etc. Most of them have surface approach or ramp entrance.
2. Floor space before relocation: 360,000 square meters
- |                                |         |   |   |
|--------------------------------|---------|---|---|
| a. Designated for construction | 250,000 | " | " |
| b. Construction completed      | 100,000 | " | " |
| c. Engaged in production       | --      |   |   |

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## 3. Mountains and type of rocks, soil cover, geological conditions:

Underground rock quarries, tunnels 6-18 meters wide and up to about 100 meters long. Lime sandstone with sand and loam covering 6-18 meters thick. Stratification -- irregular and of varying stability.

## 4. Type and strength of masonry:

Exists only in a few places, at weak points, as weather protection.

## 5. Type and design of drainage system:

Pumping installations to city sewage system.

## 6. Type and design of installations for dust removal and ventilation:

Simple compressed-air ventilation, many air shafts.

## 7. Type of heating:

Not necessary because of excess heat from machine-tool operations.

## 8. Transportation facilities, with particular consideration for air warfare dangers:

Directly connected to the city transportation system (roads, streetcar lines, and railroad yard).

## 9. Peculiarities of shaft and elevator design:

None

## 10. Type of safety mechanism for the shaft or other entrances:

Not known

## 11. Did the installation prove sound under bombing attacks? Not known. The installations are not secure against direct hits of heavy (and some medium) bombs weighing 500-1,000 kilograms. The advantage of the installation is that it is camouflaged from aerial view, and that the individual cellar rooms, because of their spacing (thickness of intermediate pillars about two or three times the internal width of the passageways), afford little chance of being hit. The installation can be demolished only by very dense bombing (with small-size bombs) of the entire area.

## E. Firms, engineering offices, and geological experts employed in the preliminary inspection and planning:

Preliminary inspection and planning by OT reconnaissance staff Meffert; geological counsel by Dr Haberfellner, National Geological Institution, Vienna. Few construction projects.

## F. Firms to which construction work was assigned (underground construction, concrete construction, drainage, heating, and ventilation):

Little construction work; executed by local Hungarian contractors, also to some degree by the relocated firms themselves.

G. Time of (a) planning, (b) beginning of construction, (c) beginning of operations, at the plant: No entry

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H. Degree of completion and chronology of individual stages: - [No entry]

I. Are there any known precautionary measures to ensure healthful working conditions for construction workers?

Great emphasis is placed on good air conditioning. Illumination by cold [Fluorescent?] lighting. The workers are comfortable in these rooms.

K. General comments: [No entry]

## Questionnaire II. Underground Relocation

A. Location: Southwestern suburbs of Budapest, Budafoke, Budateteny, the village south of there, and Torok-Balint

B. Cover name: [No entry]

C. Type of industry relocated: Aircraft construction (fighter program); Donauflug Aircraft Construction Company, Manfred Weiss Aircraft Engines and Philipps Aviation Equipment, Tungsram, etc.

D. Type of relocation (underline that which is applicable):

- a. In existing tunnels
- b. In mining excavations (surface)
- c. In mining excavations (shaft)
- d. In caves
- e. In new underground installations (open earth)
- f. In above-ground, bombproof installations

1. Explanation of D, a to d: Existing underground sand-lime quarries, previously used as malt cellars, beer cellars, for mushroom cultivation, etc. Most of them have surface approach or ramp entrance.

2. Floor space before relocation: individual installations ranging from 200 to 20,000 square meters, totaling about 150,000 square meters

a. Designated for construction	75,000	"	"
b. Construction completed	30,000	"	"
c. Engaged in production	--		

3. Mountains and type of rocks, soil cover, geological conditions:

Underground rock quarries, tunnels 6-18 meters wide and up to about 100 meters long. Lime sandstone with sand and loam covering 6-18 meters thick. Stratification: irregular and of varying stability.

4. Type and strength of masonry:

Exists only in a few places, at weak points, for weather protection.

5. Type and design of drainage system:

Mostly natural drainage; some drainage installations.

6. Type and design of installations for dust removal and ventilation:

Only in large installations; ventilation by use of excess pressure. There are air shafts.

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## 7. Type of heating:

Not necessary because of excess heat from machine-tool operations.

## 8. Transportation facilities, with particular consideration for air warfare dangers:

Railroad along the Danube is nearby. Balaton Lake road.

## 9. Peculiarities of shaft and elevator design:

None

## 10. Type of safety mechanism for the shaft or other entrance:

Not known

## 11. Did the installations prove sound under bombing attacks and how? The installations, like the whole countryside, are covered with orchards and can hardly be spotted. Even in the case of bombing in the area, the individual tunnels are hard to hit because of the great thickness of the intermediate pillars.

## E. Firms, engineering offices, and geological experts employed in the preliminary inspection and planning:

Preliminary inspection and planning by OT reconnaissance staff Meffert; geological counsel by Dr Habersfeller, National Geological Institute, Vienna.

## F. Firms to which construction work was assigned (underground construction, concrete construction, drainage, heating, and ventilation):

Few construction projects; executed by local Hungarian contractors, also to some degree by the relocated firms themselves.

## G. Time of (a) planning, (b) beginning of construction, (c) beginning of operations at the plant:

Not known

## H. Degree of completion and chronology of individual stages.

Not known

## I. Are there any known precautionary measures to ensure healthful working conditions for construction workers?

Great emphasis is placed on good air conditioning. Illumination by cold [Fluorescent?] lighting. The workers like to work in these rooms.

K. General comments: [No entry]

[Appended sketch follows.]

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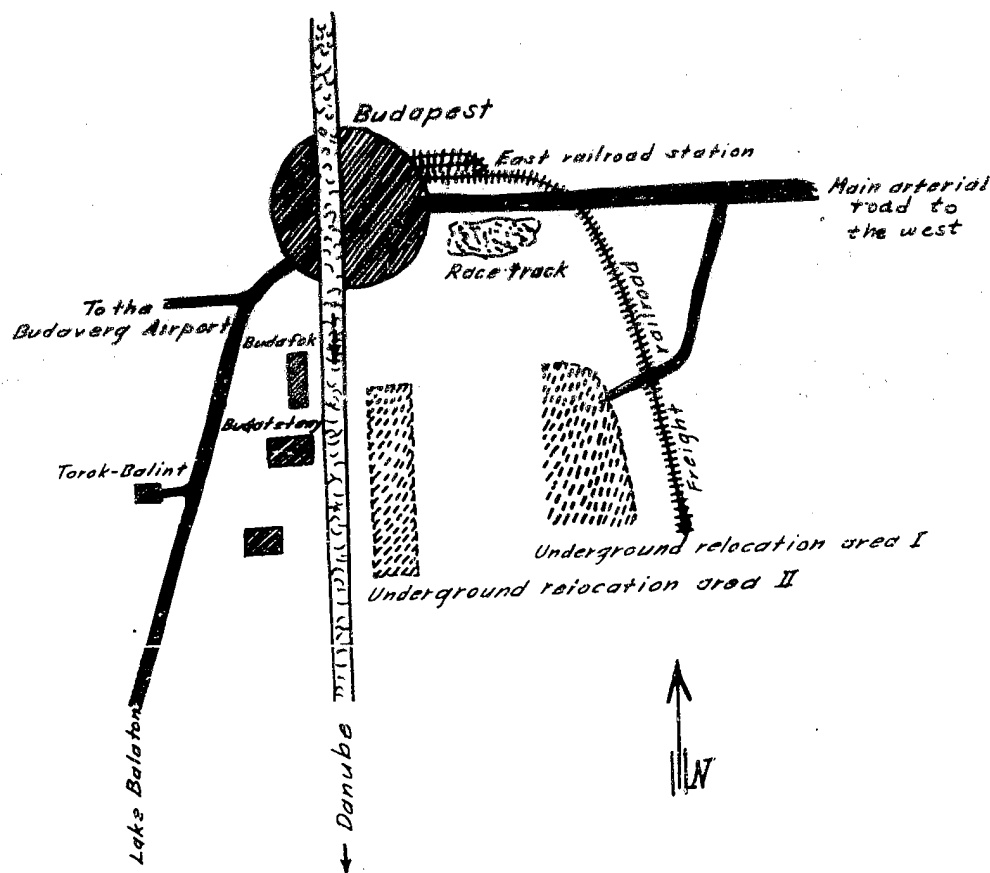
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**SCHEMATIC DIAGRAM OF UNDERGROUND RELOCATION IN  
BUDAPEST EAST AND SOUTHWEST OF BUDAPEST**



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